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Development of a spatially resolved Antihydrogen Detector based on CMOS image sensor technology

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To measure the gravitation pull on Antimatter, the AEgIS collaboration at CERN aims to perform moiré deflectometry on a beam of cold Antihydrogen. For such a measurement to be sufficiently accurate, the resulting fringe pattern needs to be resolved with micrometric accuracy. Here we present the technology and design considerations behind the OPHANIM detector, a purpose built Antihydrogen detector tailored to the requirements of the AEgIS gravity measurement.

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